

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS	WELL LOG	ELECTRIC LOGS	F F	X	INTER SANDS	LOCATION INSPECTED	SUB REFOR' abd'
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DATE FILED 7-17-92

LAND NOT PATENTED STATE LEASE NO. **ML-45173** PUBLIC LEASE NO. INDIAN

DRILLING APPROVED 7-31-92

SPUDDLED IN

COMPLETED 2-3-94 1A PUT TO PRODUCE

INITIAL PRODUCTION

GRA/11, Y API

PRODUCING ZONES

TOTAL DEPTH

WELL ELEVATION

DATE ABANDONED _____

FIELD	UNDESIGNATED
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UNIT

UINAH

WELL NO. **STATE 13-36B** API NO. **43-047-32320**

LOCATION	618' FSL.	FT. FROM (W) (S) LINE	650' FSL.	FT. FROM (E) (W) LINE	SW SW	14 - 1/4 SEC.	36
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Sub 14 for female football players (N = 10) was 1.07 (SD = 0.03) and 1.06 (SD = 0.03) for male football players (N = 10). Sub 14 for female football players was significantly lower than for male football players ($F(1, 18) = 10.00$, $p = 0.005$).

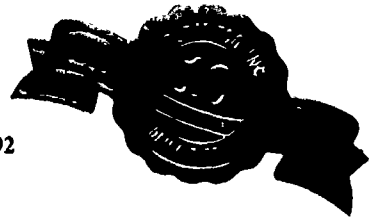
TIME	DCI	SEC	OPERATOR	TIME	DCI	SEC	OPERATOR
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[illegible]

9S 19E 30 PG 4 E RESOURCES COMPANY



July 14, 1992



Utah Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203
Attn: Tammi Searing

Re: PG & E Resources Company
#13-36B State
SW SW Sec. 36, T9S - R19E
Uintah County, Utah

Dear Tammi,

Enclosed please find three copies of the Application for Permit to Drill on the above mentioned location along with one copy of the Surface Use Plan which has been filed with the BLM in Vernal, Utah. Please note that a copy of the approved water permit is also attached.

As you will note, this location is located on Federal Surface/State Minerals. Please contact me at your earliest convenience if you should require additional information.

Please forward approved copies of this application to Mr. Jim LaFevers at the following address:

PG & E Resources Company
5950 Berkshire Lane, Suite 600
Dallas, TX 75221
Attn: Jim LaFevers

Thank you for your cooperation.

Sincerely,

PERMITCO INC.

Lisa L. Smith
Consultant for:
PG & E Resources Company

Enc.

cc: PG & E Resources - Dallas, TX
PG & E Resources - Vernal, UT
PIC Technologies - Denver, CO

Permitco Incorporated
A Petroleum Permitting Company

13585 Jackson Drive Denver, Colorado 80241 (303) 452-8888

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DIVISION OF
OIL, GAS & MINING

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TIGHT HOLE

Form OGC 1a

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7 Lease Designation and Serial No ML-45173	
b Type of Well Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>		8 If Indian Allottee or Title Name N/A	
c Name of Operator PG & E Resources Company		9 Unit Agreement Name N/A	
d Address of Operator 303/452-8888		10 Name of Lease Name State	
e Permittee Inc. - Agent Denver, CO 80241		11 Well No #13-36B	
f Location of Well (Report location clearly and in accordance with any State requirements*) At surface 618' FSL and 650' FWL		12 Field and Pool or Water Right Parlette Bench 640	
g At proposed prod zone SW SW Sec 36		13 Sec 1 R M or Bk and Survey or Area Sec. 36, T9S - R19E	
h Distance in miles and direction from nearest town or post office* Approx. 9 miles southwest of Ouray, Utah		14 County or Parish 15 State Utah Utah	
i Distance from proposed location to nearest property or lease line ft (Also to nearest strig line if any*) 618'		16 No of acres in lease 640	
j Distance from proposed location* to nearest well drilling completed or applied for on this lease ft approx 2600'		17 No of acres assigned to this well 40	
k Elevations (Show whether DL RT GR etc.) 4881' GR		18 Proposed depth 7000' GR 45	
20		19 Rotary or cable tools Rotary	
21		22 Approx date work will start* Immediately upon approval of this application.	
23 PROPOSED CASING AND CEMENTING PROGRAM			
Size of Hole	Size of Casing	Weight per Foot	Setting Depth
12-1/4"	8-5/8"	24#	400'
7-7/8"	4-1/2"	11 6#	7000'
Quantity of Cement 170 sx or suffic to circ to surf. 1800 sx or suffic to circ to 4800' MINIMUM.			

PG & E Resources Company proposes to drill a well to 7000' to test the Wasatch and Lower Green River formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per State of Utah requirements.

See additional drilling information attached

(Note. This well is located on State Minerals/Federal Surface)

See Surface Use Plan and Water Permit attached

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on sub-surface locations and measured and true vertical depths. Give blowout prevention program if any.

24	Signature of Operator <i>David A. Smith</i>	Consultant for PG & E Resources Company	Date 7/14/92
(This space for Federal or State office use)			
Permit No.	43-747-30307	Approval Date	APPROVED BY THE STATE OF UTAH OIL, GAS, AND MINING DATE: 7-31-92 BY: <i>John J. Matthews</i> WELL SPACING: 649-3-2
Approved by	Conditions of approval if any	100	

*See Instructions On Reverse Side

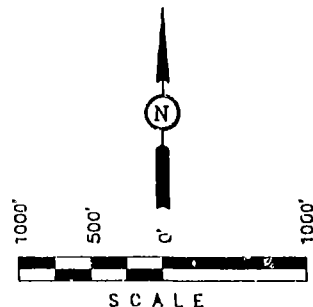
T9S, R19E, S.L.B.&M.

PG&E RESOURCES COMPANY

Well location, #13-36B STATE, located as shown in the SW 1/4 SW 1/4 of Section 36, T9S, R19E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 36, T9S, R19E, S.L.B. & M TAKEN FROM THE BIG PACK MTN. NW QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY SAID ELEVATION IS MARKED AS BEING 4778 FEET



CERTIFICATE

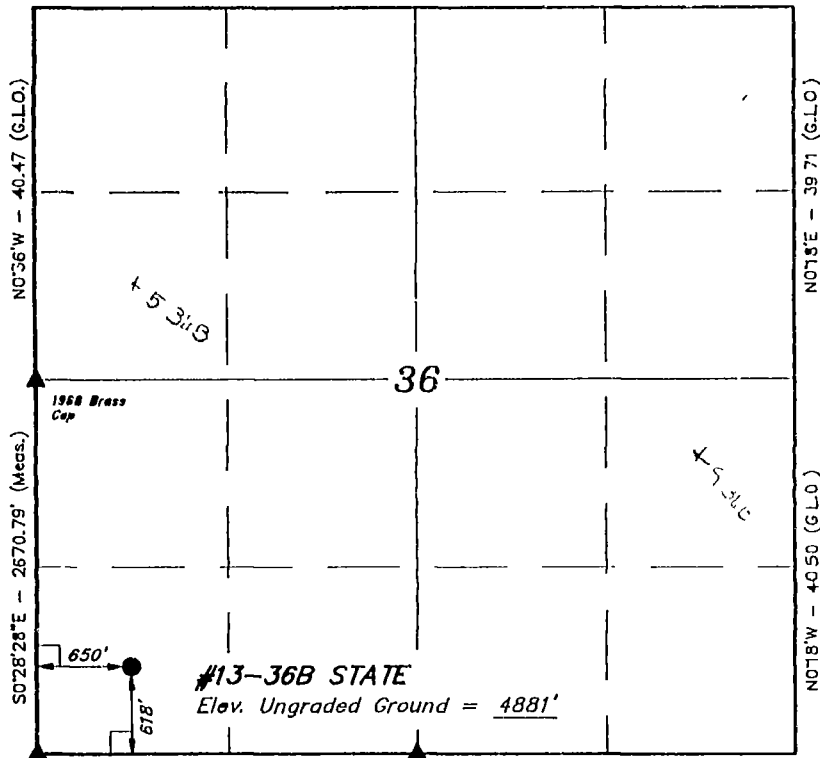
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NO 5792
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 5709
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
 65 SOUTH 200 EAST - VERNAL, UTAH 84078
 (801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 6-16-92	DATE DRAWN: 6-17-92
PARTY JF, BC JLG	REFERENCES G.L.O. PLAT	
WEATHER COID	FILE PG&E RESOURCES	

N89°33'W - 81.36 (G.L.O.)



1956 Brass N89°58'W - G.L.O. (Basis of Bearings) 2665.94' (Measured)
 1956 Brass S89°56'W - 40.20 (G.L.O.)

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD
- ▲ = SECTION CORNERS LOCATED (Brass Caps)

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(STATE MINERALS/FEDERAL SURFACE)

DIVISION OF
OIL GAS & MINING

#13-36B STATE
618' FSL and 650' FWL
SW SW Sec. 36, T9S - R19E
Uintah County, Utah

Prepared For:

PG & E RESOURCES COMPANY

By:

PERMITCO INC.
13585 Jackson Drive
Denver, Colorado 80241
303/452-8888

Copies Sent To:

- 3 - Division of Oil, Gas & Mining
- 3 - BLM - Vernal, Utah (Surface Use Plan Only)
- 1 - PG & E Resources Co. - Vernal, Utah
- 3 - PG & E Resources Co. - Dallas, TX
- 1 - PIC Technologies - Denver, CO



Permitco Incorporated
A Petroleum Permitting Company

The proposed well is located on State Minerals and Federal Surface. A surface use plan has been prepared as required by the Bureau of Land Management. A copy has been attached for your review. All other drilling information pertaining to this well is shown below.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth</u>
Uinta	Surface
Green River	715'
Basal Limestone	4940'
Wasatch	5077'
Chapita Wells 1	5797'
Chapita Wells 2	5964'
Chapita Wells 3	6165'
Chapita Wells 4	6468'
Ute and Buttes	6781'
T.D.	7000'

2. Casing Program

The proposed casing program will be as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>
Surface	0-400'	12-1/4"	8-5/8"	24#	K-55
Produc.	0-7000'	7-7/8"	4-1/2"	11.6#	N-80

Casing design subject to revision based on geologic conditions encountered.

3. Cement Program

The cement program will be as follows:

Surface

0-400'

Type and Amount

170 sx Class "A" cement or sufficient volume to circulate to surface.

Production

Type and Amount

Approx. 630 sx Class "G" with 4% Thrifty Lite + 3% salt, + 3.0 PPS CSE + .25 PPS Cello-Seal + 5 PPS Gilsonite (yield 3.61 & 11.0 ppg) and 1249 sx (50-50) Poz + 2% Gel + 0.6% CF-2 + 0.2% TF-4 (1.28 Yield 14.1 ppg) or sufficient to circulate to 4800' minimum.

4. Drilling Fluids

The proposed circulating mediums to be employed in drilling are as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>PH</u>
0-7000'	Water/Gel-KOH	8.4-8.7	20-40	9

5. Testing, Logging and Coring

The anticipated type and amount of testing, logging and coring are as follows:

- a. One drill stem test is possible after log evaluation. A straddle test may be run in the Green River formation.
- b. The logging program will consist of a DIL-SFL-SP-GR and an SDL-DSN-GR-CAL will be run from T.D. to base of surface casing.



- c. No cores are planned, however, after log evaluation, a rotary sidewall core is possible.

- 6. Spud Date/Drilling Time
 - a. Drilling will commence immediately upon approval of this application.
 - b. It is anticipated that the drilling of this well will take approximately 18-20 days.

- 7. Road Use/Water Source

See Surface Use Plan attached.

- 8. Archeological Survey

See Surface Use Plan attached.

- 9. Wellsite Layout

See Surface Use Plan and Diagrams attached.

- 10. BOP Requirements

PG & E's minimum specifications for pressure control equipment are as follows:
Ram Type: 10" Hydraulic double with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure

is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30-day intervals

Valves shall be tested from working pressure side during BOPE tests with all downstream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned.

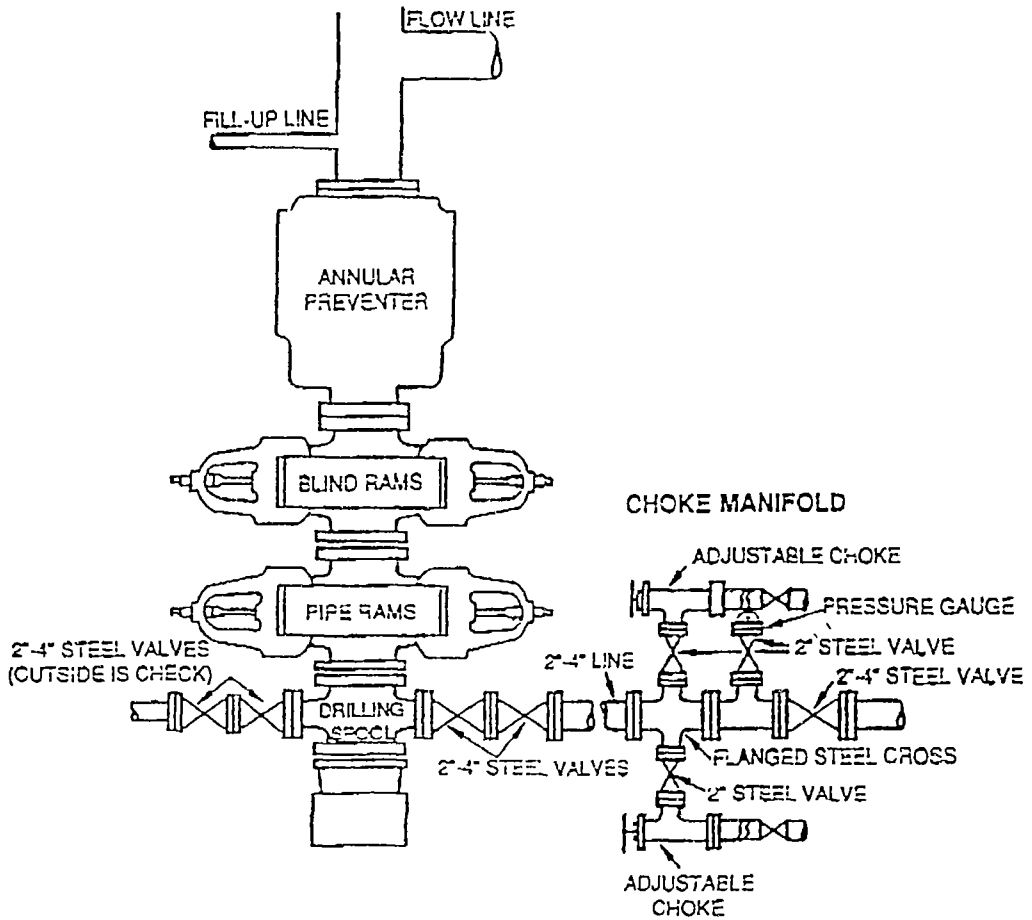
Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

- a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 10", 3000 psi working pressure blowout preventor.
- b. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

11. Anticipated Pressures

- a. The expected bottom hole pressure is 3600 psi.
- b. No hydrogen sulfide gas or abnormal pressure are anticipated.

FIGURE NO. 3-A
THREE PREVENTER HOOKUP
CLASS III
(MEETS 43 CFR, PART 3160, 3M SPECIFICATIONS)



SURFACE USE PLAN
(Federal Surface/State Minerals)

1. Existing Roads

- a. The proposed well site is located approximately 9 miles southwest of Ouray, Utah.
- b. Directions to the location from Ouray, Utah are as follows:

From Ouray proceed south on the Seep Ridge Road (County Road) for 2.6 miles. Turn right onto an existing oilfield road and proceed 3.1 miles in a southwesterly direction to a fork in the road. Turn left and proceed south 1.9 miles. Turn right and proceed approximately 1.6 miles staying south. Turn left onto new access road (flagged) and proceed approximately 3/10 mile to the location.

- c. For location of access roads within a 2-Mile radius, see Maps A & B.
- d. Improvement to the existing access will not be necessary.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

2. Planned Access Roads

- a. Approximately 3/10 mile of new access road will be required. Appropriate water control will be installed to control erosion.
- b. The maximum grade will be approximately 8% for a short distance.
- c. No turnouts are planned.

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A Petroleum Refining Company

- d. One portion of the access road will be constructed along a rocky side hill. Uintah Engineering and Land Surveying will be contacted prior to construction of the access road so that they can meet with the dirt contractor.
- e. One low water crossing will be required as shown on Map "B".
- f. The access road was centerline flagged at the time of staking.
- g. Surfacing material may be necessary depending on weather conditions.
- h. No cattleguards will be necessary.
- i. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- j. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).
- k. The road will be constructed/upgraded to meet the standards of the anticipated traffic flow and all weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowing and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

- a. Water wells -none
- b. Injection wells -one
- c. Producing wells - two
- d. Drilling wells - none
- e. Shut-in wells - none
- f. Dry Hole - two
- g. Disposal/Injection wells - one

- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted Desert Brown (10YR6/3). All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required paint color is Desert Brown.
- b. If storage facilities/tank batteries are constructed on this lease, the facility/battery or the wellpad shall be surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire content of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.
- c. A Sundry Notice will be submitted showing placement of all production



facilities prior to construction.

- d. The authorization for use of the tank battery site will be subject to appropriate rental or other financial obligation as determined by the authorized officer.
- e. Any necessary pits will be properly fenced to prevent any wildlife entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.
- g. The road will be maintained in a safe useable condition.

5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from an Underground Water Well which is located in Section 32, T4S - R3E, (in Ouray) Uintah County, Utah.
- b. Water will be hauled to location over the roads marked on Maps A and B.
- c. No water well is to be drilled on this lease.
- d. A copy of the approved water permit is attached.

6. Source of Construction Material

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a commercial source.
- c. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2.3. Construction material will not be located on lease.
- d. No construction materials will be removed from Federal land.

7 Methods of Handling Waste Disposal

- a The reserve pit will be constructed so as not to leak, break, or allow discharge
- b A plastic nylon reinforced liner will be used, and will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O.
- c Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight
- d After first production, produced waste water will be confined to a unlined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NPL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance
- e Drill cuttings are to be contained and buried in the reserve pit.
- f Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.
- g A chemical porta-toilet will be furnished with the drilling rig.
- h. The produced fluids will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas salt water or other produced fluids will be cleaned up and removed.

8. Ancillary Facilities

There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

- a. The reserve pit will be located on the south side of the location.
- b. The flare pit will be located downwind of the prevailing wind direction on the southwest side, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.
- c. The stockpiled topsoil (maximum amount available due to rocky location) will be stored between points 2 and 3 on the east side of the location as shown on the attached wellpad layout diagram.
- d. Access to the wellpad will be from the east between Points 7 and 8 as shown on the attached diagram.
- e. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- f. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Location Layout.
- g. During construction, all brush will be removed from the wellpad and access road and stockpiled separately from the topsoil.
- h. All pits will be fenced according to the following minimum standards:
 1. 39 inch net wire shall be used with at least one strand or barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).

2. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of the fence shall be at least 42-inches.
 3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
 4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
 5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.
1. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.

10. Plans for Restoration of Surface

Producing Location

- a. Immediately upon well completion, the location and surrounding area will be cleared of all unused piping, equipment, debris, materials, trash and mud are required for production.
- b. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
- c. If a passive system vented area is used, it shall be torn and perforated before backfilling of the reserve pit.
- d. The reserve pit and that portion of the location not needed for production facilities/operations will be reconstructed to the approximate natural condition. The reserve pit will be maintained within 90 days from the date of well completion. Before any dirt work takes place, the reserve pit must

have all fluids and hydrocarbons removed and all cans, barrels, pipe, etc., will be removed.

- e. The appropriate surface management agency should be contacted for required seed mixture.

Dry Hole

- f. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and BLM will attached the appropriate surface rehabilitation conditions of approval.

11. Surface Ownership

Access Roads - All roads are County maintained or are existing oilfield roads located on BLM or Indian lands.

Wellpad - The well pad is located on lands owned by the BLM.

12. Other Information

- a. A Class III archeological survey has been conducted by Sagebrush Archeological Consultants. No significant cultural resources were found and clearance has been recommended. A copy of this report will be submitted directly to the appropriate agencies by Sagebrush Archeological Consultants.
- b. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and

-a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- c. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- d. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure.
- e. A silt catchment dam and basin will be constructed according to BLM specifications north of the location along the access road as flagged. A copy of the BLM specifications, "Minimum Standards for Dams Impounding Under 10 Acres" is attached hereto.

- f. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees pertaining to the use of the surface. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.
- g. A complete copy of the approved Surface Use Plan and ROW grant shall be on location during construction of the location and drilling activities.
- h. The operator or his contractor shall contact the BLM Offices at 801/789-1362 48 hours prior to construction activities.
- i. The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

13. Lessee's or Operator's Representative and Certification

Permit Matters
PERMITCO INC.
Lisa L. Smith
13585 Jackson Drive
Denver, CO 80241
303/452-8888

Drilling & Completion Matters
PG & E Resources Company
5950 Berkshire Lane
Suite 600
Dallas, TX 75225
Gary Whetstein - 214/750-3800
Mike McMican - 801/789-4573

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by PG & E Resources Company and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.


SURFACE USE PLA
PG & E Resources Company
#13-36B State
618' FSL and 650' FWL
SW SW Sec. 36, T9S - R19E
Uintah County, Utah

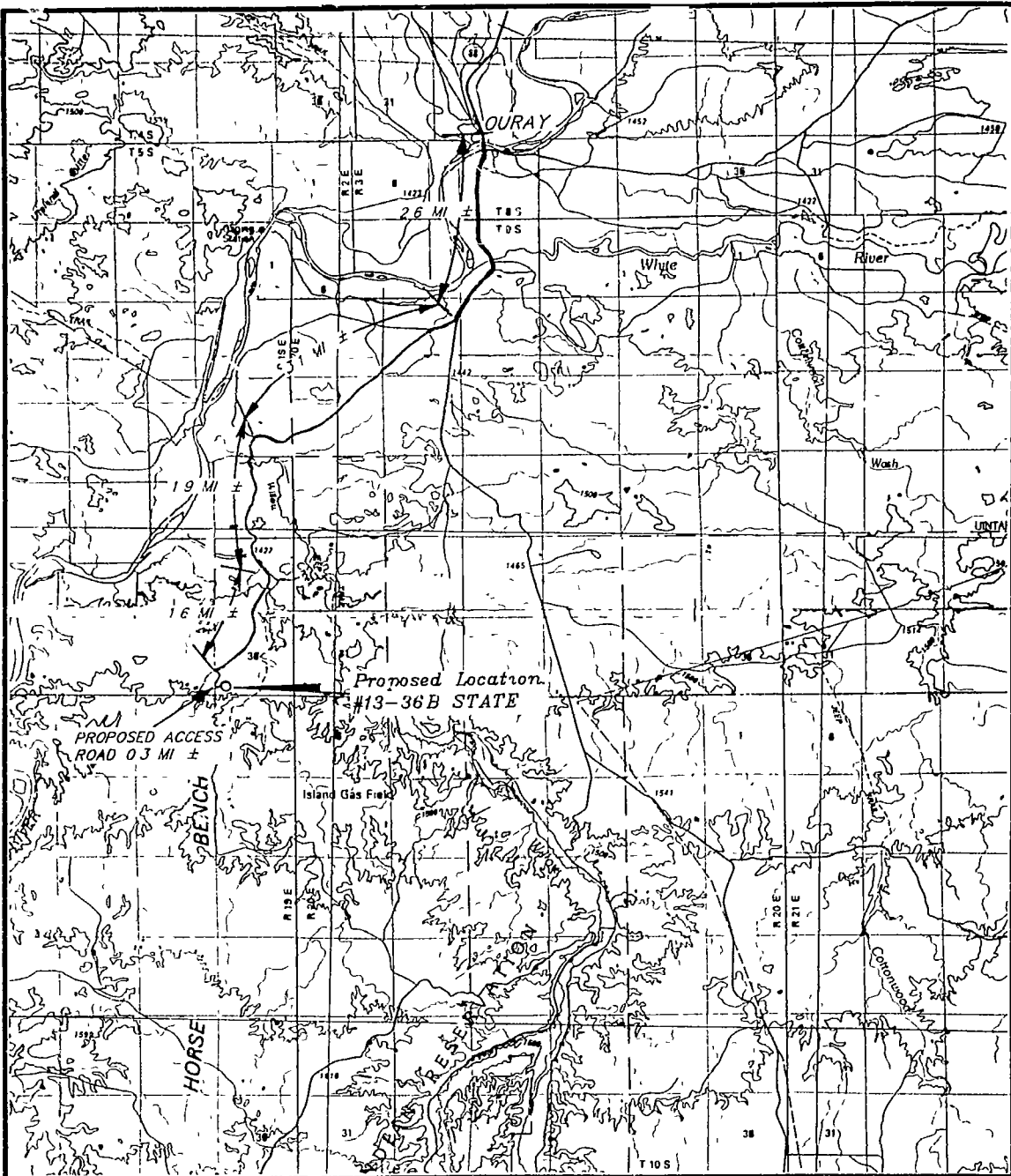
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Page 11

This statement is subject to the provisions of 18.U.S.C. 1001 for the filing of a false statement.

July 14, 1992
Date:


Lisa L. Smith - PERMITCO INC.
Authorized Agent for:
PG & E Resources Company



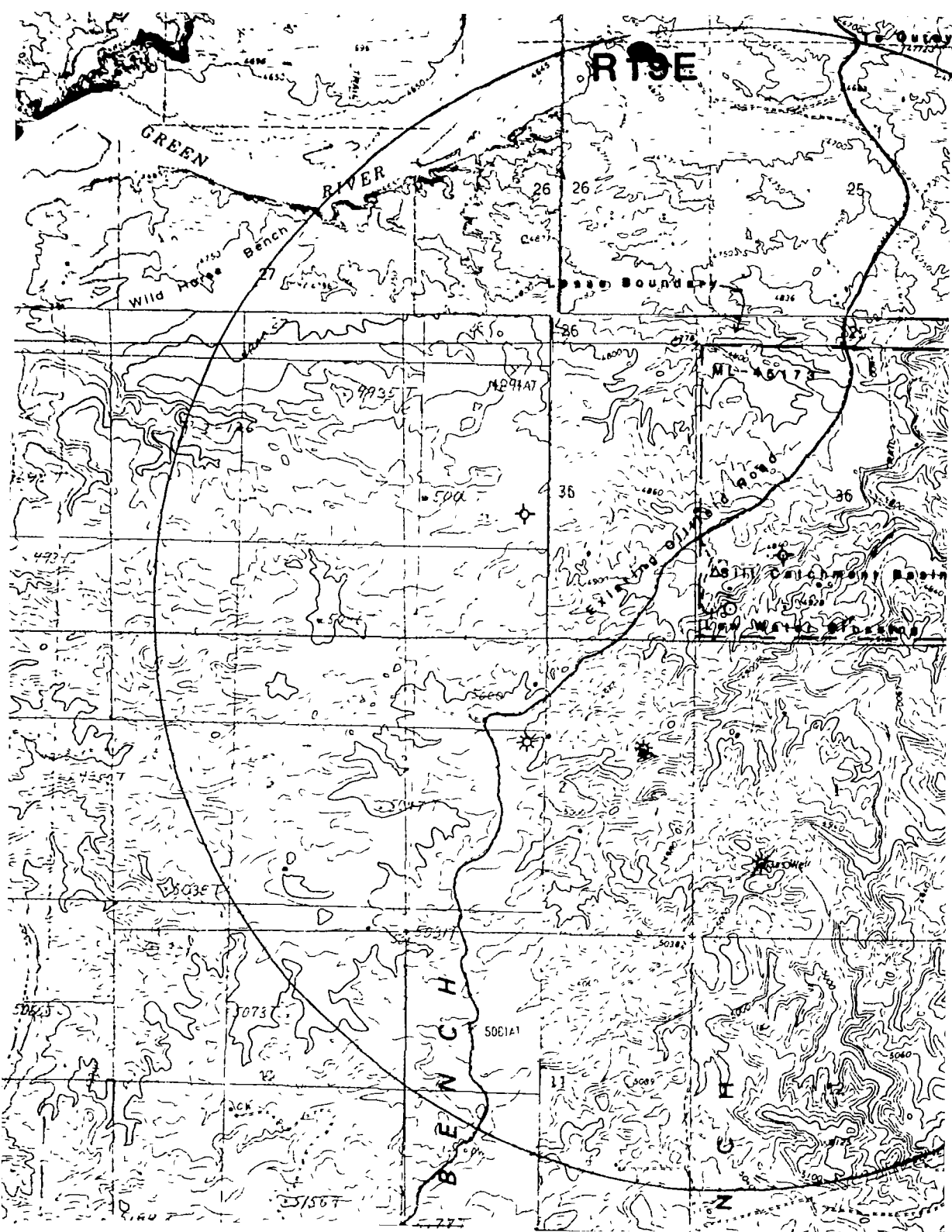
TOPOGRAPHIC
MAP "A"

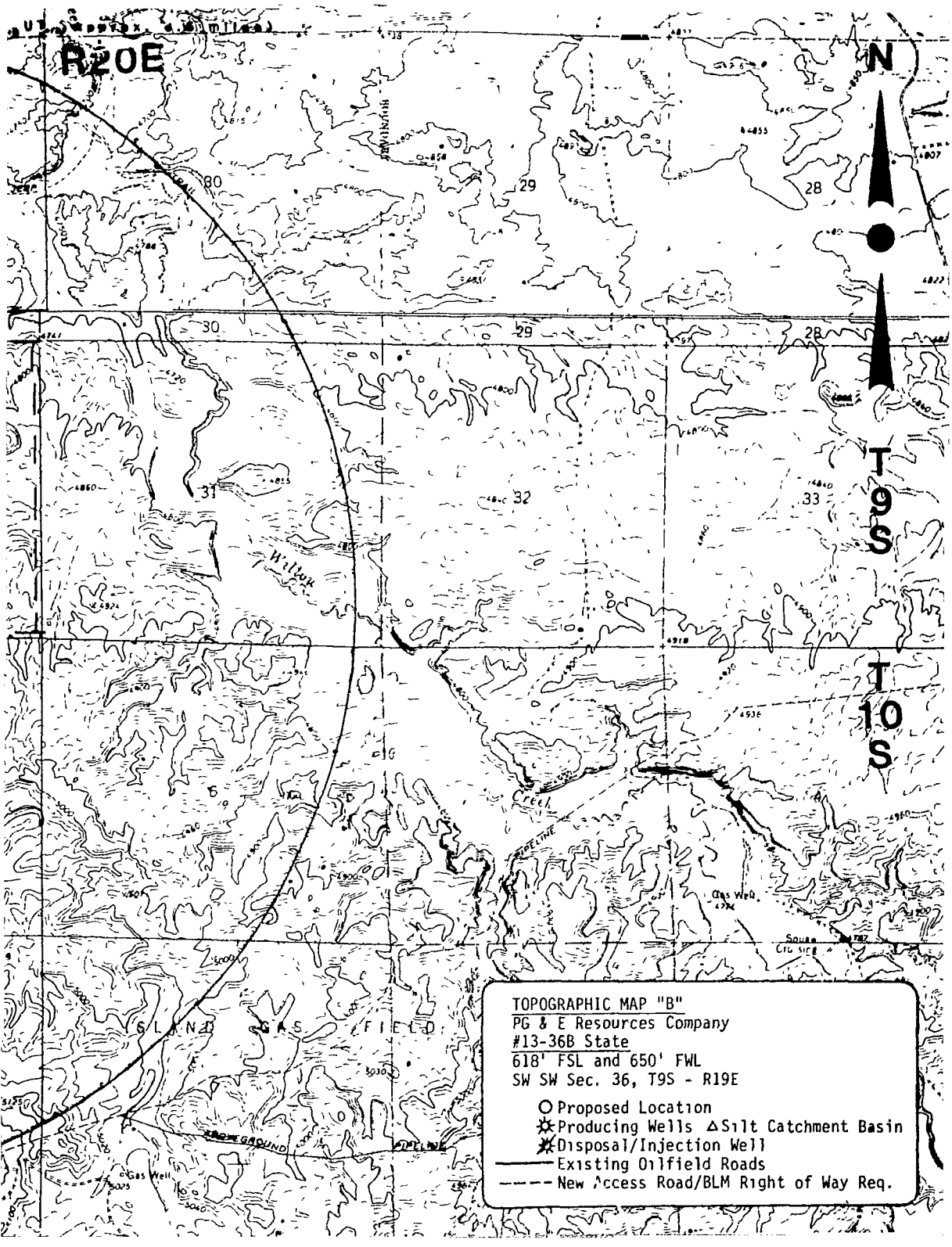
DATE 6-17-92 JLG



PG&E RESOURCES COMPANY

#13-36B STATE
SECTION 36 T9S, R19E, S.L.B &M.
618' FSL 650' FWL





TOPOGRAPHIC MAP "B"

PG & E Resources Company

#13-36B State

618' FSL and 650' FWL

SW SW Sec. 36, T9S - R19E

○ Proposed Location

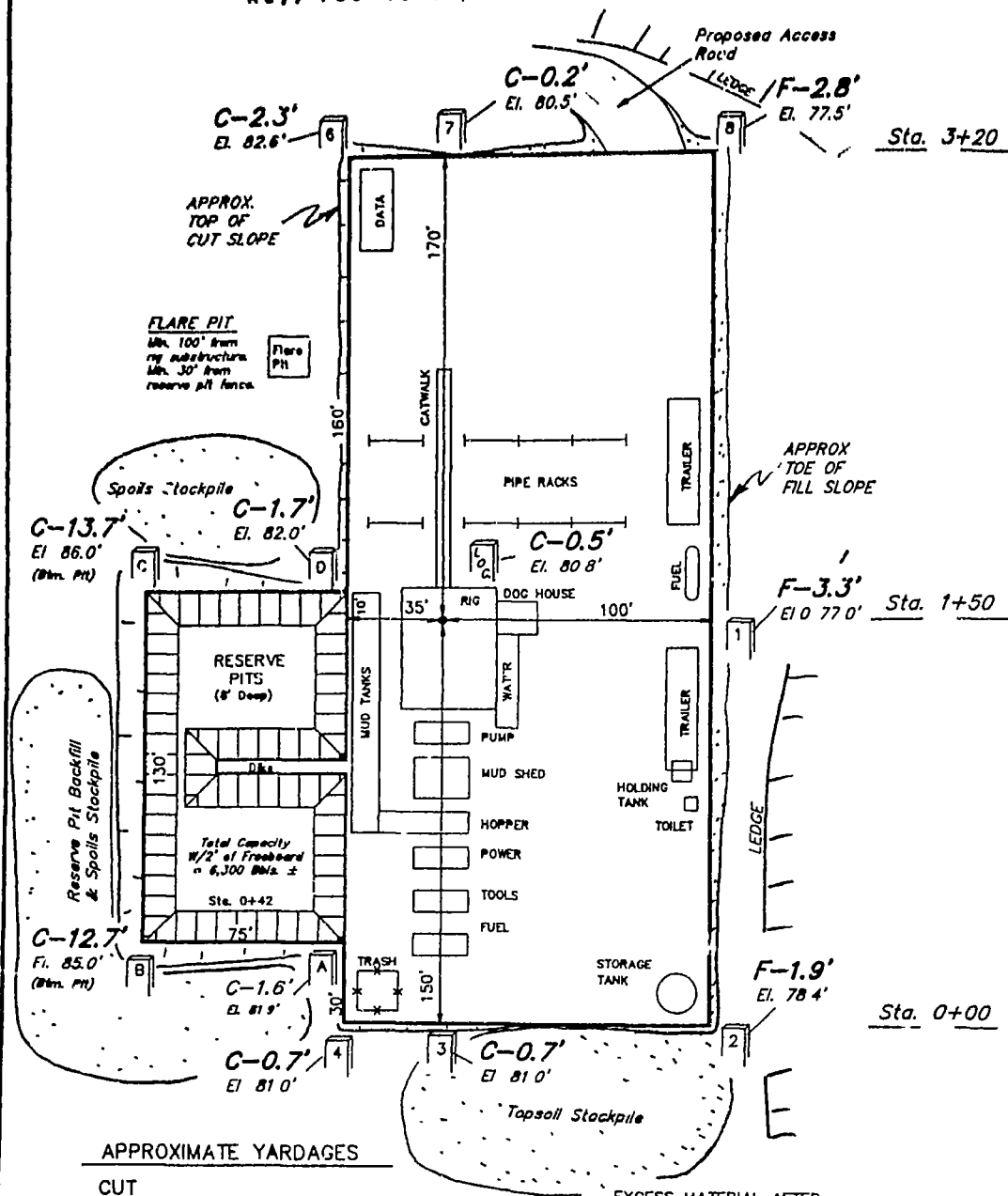
★ Producing Wells ▲ Silt Catchment Basin

✱ Disposal/Injection Well

— Existing Oilfield Roads

--- New Access Road/BLM Right of Way Req.

(Robert Kay) 788-1017 prior to beginning construction on access road



APPROXIMATE YARDAGES

CUT

(6") Topsoil Stripping = 980 Cu. Yds

Remaining Location = 3,830 Cu. Yds.

TOTAL CUT = 4,810 CU.YDS.

FILL = 2,020 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION

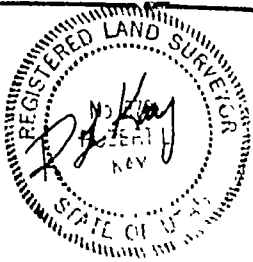
= 2,680 Cu. Yds.

Topsoil & Pit Backfill (1/2 Pit Vol)

= 1,960 Cu. Yds.

EXCESS UNBALANCE (After Rehabilitation)

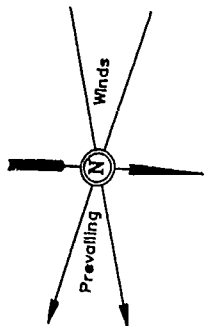
= 720 Cu. Yds.



PG&E RESOURCES COMPANY

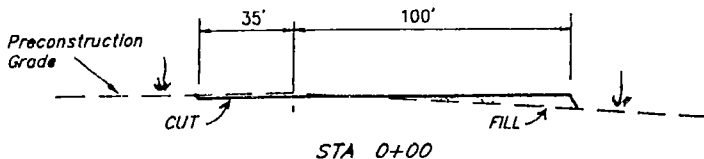
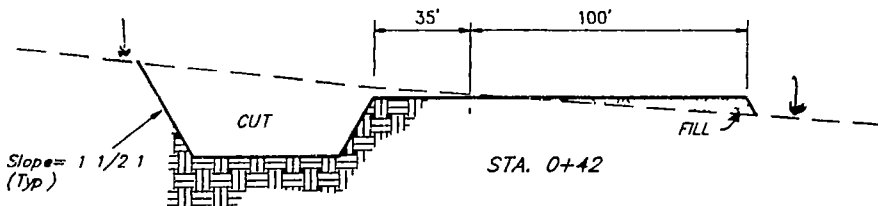
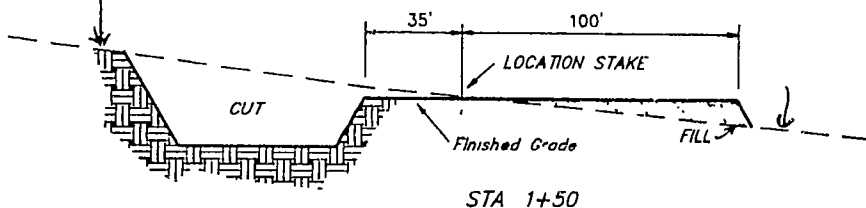
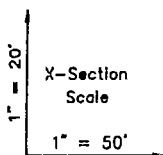
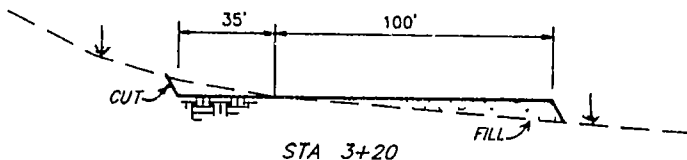
LOCATION LAYOUT FOR

#13-36B STATE
SECTION 36, T9S, R19E, S.L.B. & M.
618' FSL 650' FWL



SCALE: 1" = 50'
DATE: 6-18-92
Drawn By R.E.H.

REVISED: 6-29-92 R.E.H.



TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS

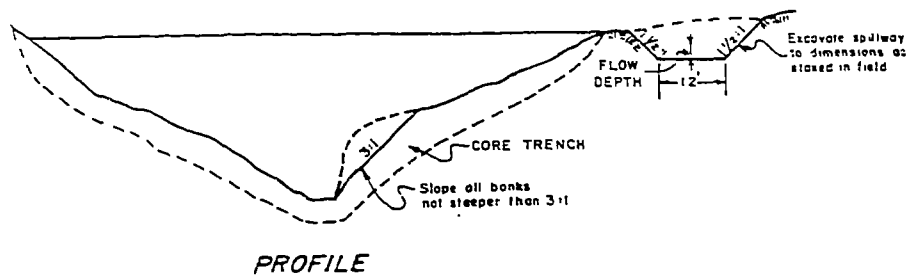
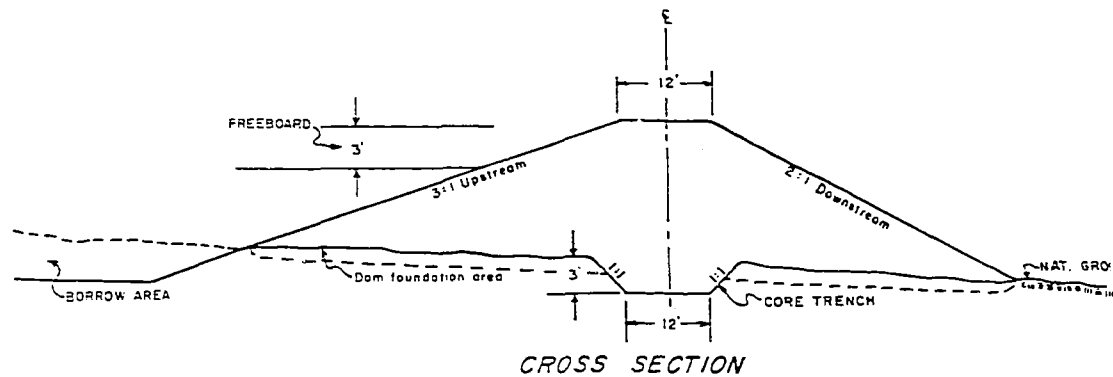
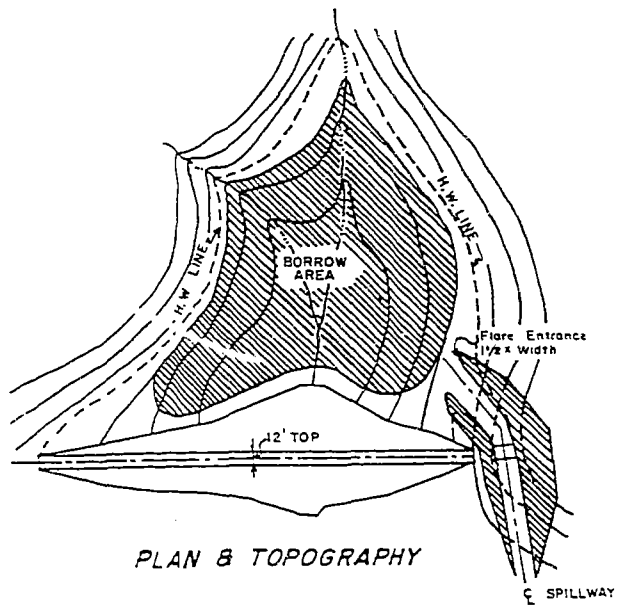
Elev Ungraded Ground at Location Stake = 4880.8'

Elev Graded Ground at Location Stake = 4880.3'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 West, Pocatello, Utah

MINIMUM STANDARDS FOR DAMS IMPOUNDING UNDER 10 AC. FT.

- I. Site Location and Design
 - A. Authorized BLM personnel shall approve site location, fill material, foundation material, and spillway size and location.
 - B. Construction shall be per attached diagram.
- II. Borrow Areas
 - A. Borrow material shall be taken from within the reservoir basin below high water line whenever possible.
 - B. Vegetation, debris and topsoil shall be removed to a depth of 12 inches below natural ground line and deposited as directed.
 - C. Vegetation, debris and topsoil shall be stockpiled to be used as cover for borrow areas above the high water line or spread on downstream side of dam.
 - D. Borrow areas above the high water line shall be contoured to blend into natural ground lines.
- III. Core Trench and Dam Foundation
 - A. A core trench shall be constructed 12 feet wide along the full length of the dam center line to a minimum depth of 3 feet or bedrock.
 - B. Sides of the core trench shall be no steeper than 1:1 slope.
- IV. Dam and Core Fill
 - A. Fill shall be homogeneous material, preferably of high impervious, compactable soils (such as high clay content soil free of organic material, sand or rock).
 - B. Lifts of fill shall not exceed 6 inches when compacted.
 - C. Fill shall be built up at a consistent rate the full length of the dam.
 - D. Lifts shall be compacted by at least one pass of the crawler tractor over the entire width of the lift.
 - E. Downstream side of the dam shall be no steeper than 2:1 slope. Upstream side of the dam shall be no steeper than 3:1 slope.
 - F. Top of the dam shall be a minimum of 12 feet wide.
 - G. Maximum water depth against the dam shall be 10 feet when constructed with a crawler tractor.
- V. Spillway
 - A. Spillway shall be constructed through natural material.
 - B. Spillway shall be constructed to divert overflow away from fill material or natural material that is an integral part of the dam.
 - C. Incorporate in-place rock or hauled-in rock in spillway and at discharge point below spillway to prevent "down cutting" and "blowout" holes, when possible.
 - D. Construct spillway so there is a minimum of 3 feet of freeboard on the dam.



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT			
RETENTION DAM TYPICAL PLAN & SECTION			
DESIGNED _____	RECOMM. _____		
DRAWN _____	RECOMM. _____	CHIEF, DIV. OF ENG.	
CHECKED _____	APPROVED _____		
SCALE NOT TO SCALE			
DATE _____		SHEET 1 OF 1	

A Class III Archeological Survey has been conducted by Sagebrush Archeological Consultants. No significant cultural resources were found and clearance has been recommended. A copy of this report will be submitted to the appropriate agencies by Sagebrush Archeological Consultants.



Form 87-2M (10-20)

Application No. 53617

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

43-8496

NOTE:—The information given in this application should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒
2. The name of the applicant is A-1 Tank Rental & Brine Service
3. The Post Office address of the applicant is P. O. Box 1167, Vernal, Utah 84078
4. The quantity of water to be appropriated 0.15 second-feet and/or _____ acre feet
5. The water is to be used for Other from Jan. 1 to Dec. 31
(Major Purpose) (Month) (Day) (Month) (Day)
- other use period _____ from _____ to _____
(Minor Purpose) (Month) (Day) (Month) (Day)
- and stored each year (if stored) from _____ to _____
(Month) (Day) (Month) (Day)
6. The drainage area to which the direct source of supply belongs is _____
(Name of stream or other source)
- The direct source of supply is * Underground Water (Well)
(Name of stream or other source)

which is tributary to _____ tributary to _____

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the space and the remaining space should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining space, designate the stream channels to which it is tributary, even though the water sinks, evaporates, or is diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

The point of diversion from the source is in Uintah County, situated at a point *
East 400 ft. North 200 ft. from SW Cor. Sec. 32, T4S, R3E, USB&M
(in survey)

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west, with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if greater distance, to some prominent and permanent natural object. If application will be received for filing in which the point of diversion is not defined definitely.

The diverting and carrying works will consist of a 6-in. well 40 to 100 ft. deep

If water is to be stored, give capacity of reservoir in acre feet _____ height of dam _____
area inundated in acres _____ legal subdivision of area inundated _____

If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

12. Is the land owned by the applicant? Yes X No ____ If "No," explain on page 2. Total _____ Acres
13. Is this water to be used supplementally with other water rights? Yes _____ No X
If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity. _____
15. If application is for mining, the water will be used in _____ Mining District at
the _____ mine, where the following ores are mined _____
16. If application is for stockwatering purposes, number and kind of stock watered _____
17. If application is for domestic purposes, number of persons _____ or families _____
18. If application is for municipal purposes, name of municipality _____
19. If application is for other uses, include general description of proposed uses Making Brine, Drilling
flod for drilling oil and gas wells
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 1 to 19, incl. SW 1/4 Sec. 32, T4S, R3E, USB&M
21. The use of water as set forth in this application will consume 0.15 second-feet and/or _____
feet of water and _____ second feet and/or _____ acre feet will be returned to the natural
stream or source at a point described as follows: _____

Page No. 2

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

Signature of Applicant

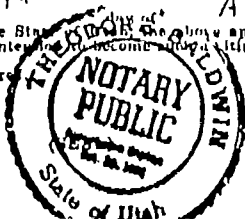
If applicant is a corporation or other organization, signature must be the name of such corporation or organization in proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, Utah }
County of

On the 17th day of August 1979, I, the undersigned, a Notary Public for the State of Utah, do hereby certify that the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become a citizen.

My commission expires



Notary Public

APD WORKSHEET
Division of Oil, Gas and Mining

OPERATOR: PG & E RESOURCES COMPANY
WELL NAME: STATE 13-36E

APD RECEIVED: 07/17/92

PI ASSIGNED: 43 - 747 - 30300

LEASE TYPE: STA LEASE NUMBER: 191-45173
LOCATION: 36 - T09S - R19E UINTAH COUNTY
FIELD: UNDESIGNATED CODE: 000

RECEIVED AND/OR REVIEWED:

SPACING:

☒ Plat

☒ Bond

(Number State Bond)

☒ Potash (Y/N)

☒ Oil shale (Y/N)

☒ Water permit

(Number 43 8496 (53617))

☒ Sent to RDCC (Y/N)

(Date: _____)

____ R649-2-3. Unit: _____

☒ R649-3-2. 40 acre spacing.

____ R649-3-3. Exception.

____ Board Order.

Cause number: _____

Date: _____

COMMENTS: 2 additional well locations Lic 36

Permit 7 08-40 no permit issued for oil surface

STIPULATIONS:

cc State Branch



Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Deputy Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
1700 Center Suite 350
Salt Lake City, Utah 84103-1203
(801) 538-5340

July 31, 1992

PG & E Resources Company
5950 Berkshire Lane #600
Dallas, Texas 75221

Gentlemen,

Re: State 13-36B Well, 618 feet from the south line, 650 feet from the west line, SW 1/4 SW 1/4, Section 36, Township 9 South, Range 19 East, Uintah County, Utah

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

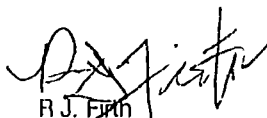
1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R. J. Firth, Associate Director, (Home) (801)571-6068.
6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Page 2
PG & E Resources Company
State 13-36B Well
July 31, 1992

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-047-32320.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R. J. Firth', is written over the printed name.

R. J. Firth
Associate Director, Oil and Gas

Idc
Enclosures
cc: Bureau of Land Management
State Lands and Forestry
J.L. Thompson
WOI1



United States Department of the Interior



RECEIVED

DEC 14 1992

BUREAU OF LAND MANAGEMENT
Vernal District Office
170 South 500 East
Vernal, Utah 84078-2700

2800
UTU-69103
(U-082)

DIVISION OF
OIL GAS & MINING

Fammy Searing
Division of Oil, Gas and Mining
355 West North Temple
Three Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

DEC 11 1992

Dear Ms. Searing:

43-047.3.220
Sec 36 7-95 R 19E

This is in reference to State mineral lease ML-45173, located in Uintah County. PG&E Resources Company has secured a Federal right-of-way from our office for access to well #13-36B. We have enclosed a copy of the right-of-way document for your information and files.

We request that you notify our office of any future changes in the status of this well so that our records can be updated as the right-of-way terminated if necessary. Please reference our right-of-way serial number UTU-69103 in any future correspondence concerning this well. Should you have any questions concerning this matter, please contact Cindy [redacted] or our office. We thank you for your cooperation.

Sincerely,

Paul Andrews

Paul Andrews
Area Manager
Book Cliffs Resource Area

Enclosure.
As stated



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Trade Center Suite 350
Salt Lake City Utah 84103 1203
801 538 5340
801 359 3940 (Fax)
801 538 5319 (TDD)

February 3, 1994

Jim LaFavers
PG & E Resources Company
6688 N Central Expressway, Suite 1000
Dallas, Texas 75206

Re. State 13-36B Well, Sec 36, T 9 S, R 19 E, Uintah County, Utah
API No 43-047-32320

Dear Mr LaFavers:

Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded, effective immediately

Please note that a new Application for Permit to Drill must be filed with this office for approval prior to the commencement of any future work on the subject location

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

A handwritten signature in black ink, appearing to read 'Don Staley'.

Don Staley
Administrative Supervisor
Oil and Gas

DME/lde
cc R J Firth
Well file
WOI219